Special Issue

Cytotoxicity and Genotoxicity of Nanomaterials

Message from the Guest Editor

The small size of nanomaterials gives them very particular physicochemical properties and makes them enormously useful in many different fields. However, also because of this reduced size, there are increasing concerns as to the potential adverse human health and environmental effects that the production and subsequent exposure to nanomaterials might pose. In this frame, approaches aimed at revealing or discarding the possible toxicity of nanomaterials are essential to understand the potential risks to human health and ensure proper regulation of the production and use of these materials.

Accordingly, potential topics for this Special Issue include but are not limited to:

- Genotoxicity of nanomaterials;
- Cytotoxic effects of nanomaterials;
- DNA repair alterations induced by nanomaterial exposure;
- Interference of nanomaterials with genotoxicity/cytotoxicity testing protocols;
- Standardization of new techniques for nanogenotoxicology assessment;
- Alternative methods for in vitro nanotoxicology screening.

Guest Editor

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Deadline for manuscript submissions

closed (20 June 2021)

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed

mdpi.com/si/42593

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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